





Technical Data			
Service	chilled or hot water, up to 60% glycol max		
	(open loop/steam not allowed)		
Flow Characteristic	equal percentage or linear		
Size [mm]	1" [25]		
End Fitting	NPT female ends		
Body	forged brass, nickel plated		
Sensor Housing	forged brass, nickel plated		
Ball	stainless steel		
Stem	stainless steel		
Seat	Teflon® PTFE		
Seat O-ring	EPDM		
Characterized Disc	TEFZEL® or stainless steel		
Body Pressure Rating [psi]	360		
Media Temperature Range (Water)	14°F to 250°F [-10°C to 120°C]		
Differential Pressure Range	5 to 50 psid, 1 to 50 psid (with flow reduction. See chart.), or 8 to 50 psid (with flow increase. See chart.)		
Close-Off Pressure	200 psi		
Inlet Length to Meet Specified Measurement Accuracy	5X nominal pipe size (NPS)		
Ambient Humidity	<95% RH non-condensing		
Flow Measurement Tolerance	±2%*		
Flow Control Tolerance	±5%		
Flow Measurement Repeatability	±0.5%		
Sensor Technology	ultrasonic with glycol and temperature compensation		
Rangeability	100:1		
Power Supply for the Flow Sensor	sensor is powered by the actuator		
Weight	4.4 lb [2 kg]		
GPM	15.1		
Leakage	0%		

Application

Water-side control of heating and cooling systems for AHUs and water coils. Equal Percentage/ Linear: heating and cooling applications.

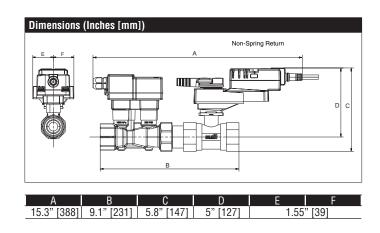
Operation

The Electronic Pressure Independent Control Valve is a two-way valve that maintains constant flow regardless of pressure variations in the system.

Product Features

Provides constant flow regardless of pressure variations in the system. Maximizes chiller P, preventing energizing additional chillers due to low T. Simplified valve sizing and selection, no Cv calculations required.

Suitable Actuators				
	Non-Spring	Electronic Fail-Safe		
P2100S-151	LR	AKRX		



Date created, 12/01/2017 - Subject to change. © Belimo Aircontrols (USA), Inc.

*All flow tolerances are at 68°F (20°C) & water.



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Dimensions (Inches [mm])					
		B		onic Fail-Safe	
A 17.04"	B 9.1" [231]	C 7.91" [201]	D 7.15" [181]	E 1.89"	F [[48]



LRX24-EP-MOD



Technical Data	
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
Power Consumption Running	3.5 W
Transformer Sizing	6 VA (class 2 power source)
Electrical Connection	3ft [1m], 18 GA plenum cable with 1/2" conduit connector
Overload Protection	electronic thoughout 0° to 90° rotation
Operating Range Y	2 to 10 VDC (default) VDC variable
Input Impedance	100 kΩ (0.1 mA), 500 Ω
Feedback Output U	2 to 10 VDC (default) VDC variable
Angle of Rotation	90°
Nominal torque	Min. 45 in-Ibs [5 Nm]
Direction of Rotation (Motor)	reversible with pc tool
Position Indication	integrated into handle
Manual Override	external push button
Ambient Humidity	5 to 95% RH non condensing (EN 60730-1)
Ambient Temperature Range	-22°F to 122°F [-30°C to 50°C]
Storage Temperature Range	-40°F to 176°F [-40°C to 80°C]
Housing	NEMA 2, IP54
Housing Material	UL94-5VA
Agency Listings†	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC
Noise Level (Motor)	max. 35 dB (A)
Servicing	maintenance free
Quality Standard	ISO 9001
Weight	1.5 lb [0.7 kg]
Degree of Protection IEC/EN	IP54

 $\ensuremath{\mathsf{TRated}}$ Impulse Voltage 800V, Type action 1.B , Control Pollution Degree 3.



LRX24-EP-MOD

Wiring Diagrams

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🔀 INSTALLATION NOTES

Provide overload protection and disconnect as required.

Actuators may be connected in parallel. Power consumption and input impedance must be observed.

Actuators may also be powered by 24 VDC.

Actuators are provided with color coded wires. Wire numbers are provided for reference.

Actuators are provided with a numbered screw terminal strip instead of a cable.

IN4004 or IN4007 diode required

Meets cULus requirements without the need of an electrical ground connection.

WARNING! LIVE ELECTRICAL COMPONENTS!

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

